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(54) **ADSORPTION COLUMN**

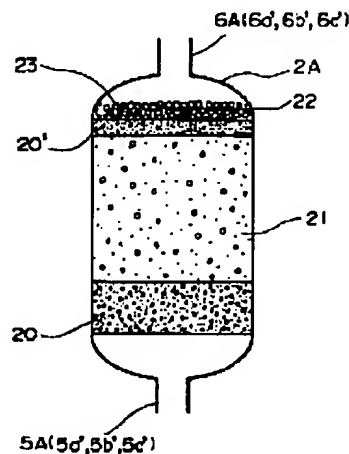
(57) Abstract:

PROBLEM TO BE SOLVED: To prevent the deterioration of performance of a zeolite in packing work by providing a hygroscopic agent layer on a main adsorbent layer in an adsorption equipment formed by packing the zeolite as the main adsorbent layer in a vessel.

SOLUTION: The adsorption equipment 2A of a vertical type vessel is provided successively with a hygroscopic agent layer 20 provided with gas supply and discharge passages 5A and 6A and packed with a hygroscopic agent in a hollow part from a lower part, the main adsorbent layer 21 packed with the zeolite and further the hygroscopic agent layer 20' packed with the hygroscopic agent like the hygroscopic agent layer 20. And a weight 23 is laminated with a net 22 on the packed layers. Relating to gaseous oxygen producing device or the like in this way, the gas supply and discharge passage 5A as a gaseous starting material supply port and the gas supply and discharge passage 6A as a product gas discharging port are provided and the moisture in the gaseous starting material supplied from the gas supply and discharging passage 5A is adsorbed in the hygroscopic agent layer 20, a component to be separated is adsorbed and separated in the main

adsorbent layer and the gas is finally brought into contact with the hygroscopic agent layer 20' and taken out as the product gas.

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